

PATENT

Attorney Docket No.: A-67032-2/RFT/RMS/RMK

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:) Examiner: Not Assigned
)
BAMDAD, et al.) Group Art Unit: 1655
)
Serial No.: Not Yet Known)
)
Filed: Herewith)
)
For: DETECTION OF TARGET)
ANALYTES USING PARTICLES)
AND ELECTRODES)
_____)

CERTIFICATE OF MAILING

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Typed Name Darryl Kriner

Signed: _____

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents
Washington, DC 20231

Sir:

This Preliminary Amendment accompanies the filing of a continuing application under 35 U.S.C. §119(e) and/or 35 U.S.C. §120. The Commissioner is authorized to charge any addition fees which may be required, including extension fees or other relief which may be required, or credit any overpayment to Deposit Account No. 06-1300(Our Order No. A-67032-2/RFT/RMS/RMK).

Prior to examination of the above identified application, please amend as follows:

In the Specification:

On page 1, line 3 please add the following paragraph:

--This application is a continuing application of United States Serial No. 09/428,155, filed October 27, 1999.--

In the Claims:

Please cancel claims 1-6.

Please add the following new claims:

--7. (new) A substrate comprising an array of electrodes each comprising a colloid particle comprising:

- a) a covalently attached self-assembled monolayer (SAM);
- b) at least one electron transfer moiety (ETM); and,
- c) at least one covalently attached nucleic acid.

8. (new) A substrate comprising an array of electrodes each comprising a colloid particle comprising:

- a) a SAM;
- b) a capture probe;
- c) an amplification sequence; and
- d) a label probe hybridized to said amplification sequence, wherein said label probe comprises at least one covalently attached ETM.

9. (new) A substrate comprising an array of electrodes each comprising a colloid particle comprising:

- a) a SAM;
- b) a first nucleic acid;
- c) a second nucleic acid; and,

d) a label probe hybridized to said first nucleic acid, wherein said label probe comprises at least one covalently attached ETM.

10. (new) A substrate according to claim 7, 8, or 9 wherein said substrate is a printed circuit board.

11. (new) A substrate according to claim 7, 8, or 9 wherein said electrodes are gold.

12. (new) A substrate according to claim 7, 8, or 9 wherein said ETM is a transition metal complex.

13. (new) A substrate according to claim 12 wherein said transition metal complex is ferrocene.

14. (new) A substrate according to claim 7, 8, or 9 wherein said SAM comprises an electroconduit-forming species (EFS).

15. (new) A substrate according to claim 7, 8, or 9 wherein said SAM comprises a conductive oligomer.

16. (new) A substrate according to claim 15 wherein said conductive oligomer is an alkyl chain.

17. (new) A colloid particle according to claim 7, 8, or 9 wherein said ETM is an organic ETM.-

REMARKS

Claims 1-6 have been cancelled.

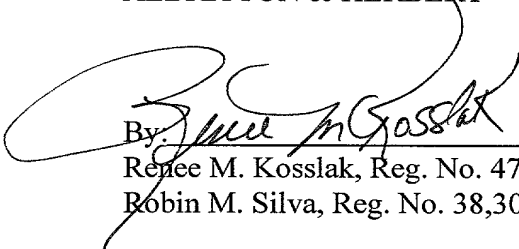
Support for new claim 7 is found on page 11, lines 21-25, page 12, lines 21-28, and original claim 8. Support for new claim 8 is found on page 11, lines 21-25, page 12, lines 21-28, and original claim 6. Support for new claim 9 is found on page 11, lines 21-25, page 12, lines 21-28, and original claim 9. Support for new claim 10 is found on page 11, line 35 through page 12, line 20. Support for new claim 11 is found on page 11, lines 10-19. Support for new claim 12 is found in original claim 10. Support for new claim 13 is found in original claim 11. Support for new claim 14 is found on page 14, line 9 through page 16, line 20. Support for new claims 15-16 is found on page 16, line 17, through page 19, line 11. Support for new claim 17 is found in original claim 13.

Please direct any calls in connection with this application to the undersigned at (415) 781-1989.

Dated: 12/10/01

Respectfully submitted,

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